



# Features of your Air to water heat pump

- **Running Costs-Reduction of Up to 33.3%**

Samsung EHS, known for its world class efficiency (12kW floor heating system with COP of 4.60), can reduce 33.3% of your running costs as compared to a gas boiler.

- **High Performance at Low Temperature**

Samsung EHS is made up of an inverter compressor optimally operated according to the outdoor temperature, offering heating performance of 90% at -10°C and reliable frost protection at -20°C.



For easy future reference, write the model and serial number down. You will find your model number on the bottom right side of the air conditioner.

Model #\_\_\_\_\_

Serial #\_\_\_\_\_

# Contents

ENGLISH

SAFETY PRECAUTIONS	04	SAFETY PRECAUTIONS
OVERVIEW	07	CONTROL PANEL
CHECKING THE FUNCTION OF BUTTONS AND INDICATORS	08	08 SPACE OPERATION MODE 09 DHW OPERATION MODE 10 TEMPERATURE ADJUSTMENT 11 HOT KEY 12 SCHEDULE 13 STATUS INDICATOR 14 OPTIONAL FUNCTION INDICATOR
OPERATING BASIC FUNCTION	15	15 AVAILABLE MODE 16 SPACE HEATING OPERATION 17 SPACE COOLING OPERATION 18 WATER LAW 19 DOMESTIC WATER HEATING OPERATION 20 TARGET ROOM AIR TEMPERATURE OPERATION
OPERATING HOT KEY FUNCTION	21	21 URGENT DHW MODE 22 OUTING MODE
OPERATING ADVANCED FUNCTION	23	23 SETTING THE TIME 24 SETTING THE 7-DAY(WEEKLY) SCHEDULE 27 SETTING THE DAILY SCHEDULE 30 FIELD SETTING MODE
APPENDIX	46	46 TEMPERATURE TABLE 46 DIP SWITCH SETTING 47 MAINTAINING THE UNIT 48 TROUBLESHOOTING TIPS 51 ERROR CODES

This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), and the Electromagnetic Compatibility Directive (2004/108/EEC) of the European Union.



**Correct Disposal of This Product  
(Waste Electrical & Electronic Equipment)**

**(Applicable in the European Union and other European countries with separate collection systems)**

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

# Safety precautions

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at [www.samsung.com](http://www.samsung.com).

## Important safety symbols and precautions:

	<b>WARNING</b>	Hazards or unsafe practices that may result in <b>severe personal injury or death</b> .		
	<b>CAUTION</b>	Hazards or unsafe practices that may result in <b>minor personal injury or property damage</b> .		
		Follow directions.		Unplug the power plug from the wall socket.
		Do NOT attempt.		Do NOT disassemble.
		Make sure the machine is grounded to prevent electric shock.		

## FOR INSTALLATION

### **WARNING**

Plug the power cord into a wall socket with the power specifications of the product or higher and use the socket for this appliance only. In addition, do not use an extension cord.

- Sharing a wall socket with other appliances using a power strip or extending the power cord may result in electric shock or fire.
- Do not use an electric transformer. It may result in electric shock or fire.
- If the voltage/frequency/rated current condition is different, it may cause fire.

The installation of this appliance must be performed by a qualified technician or service company.

- Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

Install a switch and circuit breaker dedicated to the air conditioner.

- Failing to do so may result in electric shock or fire.

Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.

- Failing to do so may result in electric shock or fire.

Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.

- This may result in electric shock or fire.

Never install the outdoor unit in a location such as on a high external wall where it could fall.

- If the outdoor unit falls, it may result in injury, death or property damage.

This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.

- Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.

- Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

## FOR INSTALLATION

### **CAUTION**

This appliance should be positioned in such a way that it is accessible to the power plug.

- Failing to do so may result in electric shock or fire due to electric leakage.

Install your appliance on a level and hard floor that can support its weight.

- Failing to do so may result in abnormal vibrations, noise, or problems with the product.

Install the draining hose properly so that water is drained correctly.

- Failing to do so may result in water overflowing and property damage.

When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.

- The water generated during the heating operation by the outdoor unit may overflow and result in property damage. In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

- Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

**FOR POWER SUPPLY****⚠ WARNING**

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.

- Unplug the power plug and clean it with a dry cloth.
- Failing to do so may result in electric shock or fire.

**Plug the power plug into the wall socket in the right direction so that the cord runs towards the floor.**

- If you plug the power plug into the socket in the opposite direction, the electric wires within the cable may be damaged and this may result in electric shock or fire.

**When the appliance or power plug or power cord is damaged, contact your nearest service center**



**Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord or loose wall socket.**

- This may result in electric shock or fire.

**Do not pull the power cord, when unplugging the power plug.**

- Unplug the power plug by holding the plug.
- Failing to do so may result in electric shock or fire.

**Do not pull or excessively bend the power cord. Do not twist or tie the power cord. Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.**

- This may result in electric shock or fire.

**FOR POWER SUPPLY****⚠ CAUTION**

**When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**

- Failing to do so may result in electric shock or fire.

**FOR USING****⚠ WARNING**

**If the appliance is flooded, please contact your nearest service center.**

- Failing to do so may result in electric shock or fire.

**If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.**

- Failing to do so may result in electric shock or fire.

**In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug. Do not touch the appliance or power cord.**

- Do not use a ventilating fan.

- A spark may result in an explosion or fire.

**To reinstall the air conditioner, please contact your nearest service center.**

- Failing to do so may result in problems with the product, water leakage, electric shock, or fire.

**A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.**

- Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.



**Do not touch the power plug or the circuit breaker with wet hands.**

- This may result in electric shock.

**Do not unplug the power plug or turn the air conditioner off with the circuit breaker while it is operating.**

- Plugging the power plug into the wall outlet or turning the air conditioner on from the circuit breaker may cause a spark and result in electric shock or fire.

**After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.**

- If a child places a bag over its head, it may result in suffocation.

**Do not insert your fingers or foreign substances into the outlet when the air conditioner is operating.**

- Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not touch the air flow blade with your hands or fingers during the heating operation.**

- This may result in electric shock or burns.

**Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.**

- Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not strike or pull the air conditioner with excessive force.**

- This may result in fire, injury, or problems with the product.

# Safety precautions

## FOR USING

### WARNING



Do not place an object near the outdoor unit that allows children to climb onto the machine.

- This may result in children seriously injuring themselves.

**Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.**

- Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.



**If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.**

- Failing to do so may result in electric shock or fire.



**Do not attempt to repair, disassemble, or modify the appliance yourself.**

- Do not use any fuse (such as copper, steel wire, etc.) other than the standard fuse.

- Failing to do so may result in electric shock, fire, problems with the product, or injury.

## FOR USING

### CAUTION



Check that the installation frame of the outdoor unit is not broken at least once a year.

- Failing to do so may result in injury, death or property damage.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.



**Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**

- This may result in electric shock, fire, problems with the product, or injury.

**Do not operate the appliance with wet hands.**

- This may result in electric shock.

**Do not spray volatile material such as insecticide onto the surface of the appliance.**

- As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

**Do not drink the water from the air conditioner.**

- The water may be harmful to humans.

**Do not apply a strong impact to the remote controller and do not disassemble the remote controller.**

**Do not touch the pipes connected with the product.**

- This may result in burns or injury.

**Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**

- This may result in property damage.

**Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.**

- This may result in harm to humans, animals or plants.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

## FOR CLEANING

### WARNING



**Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.**

- This may result in discoloration, deformation, damage, electric shock or fire.

**Before cleaning or performing maintenance, unplug the air conditioner from the wall socket and wait until the fan stops.**

- Failing to do so may result in electric shock or fire.

## FOR CLEANING

### CAUTION



**Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**

- To avoid cutting your fingers, wear thick cotton gloves when cleaning it.



**Do not clean the inside of the air conditioner by yourself.**

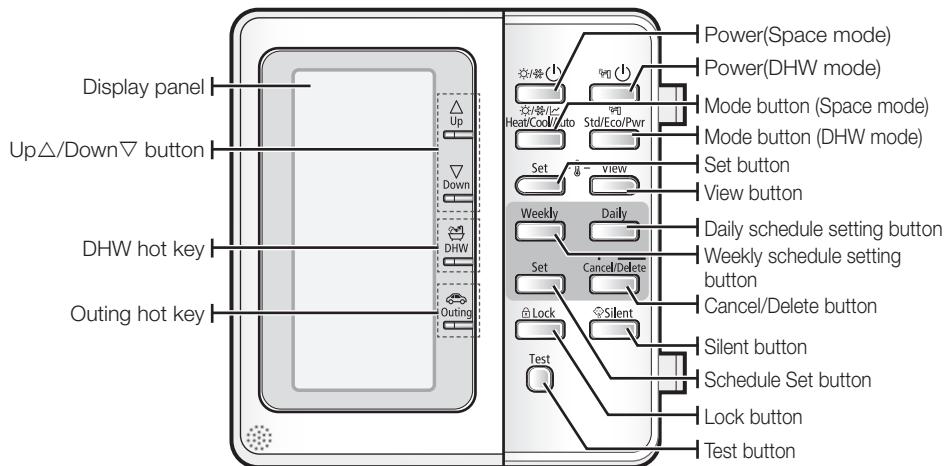
- For cleaning inside the appliance, contact your nearest service center.

- When cleaning the internal filter, refer to the descriptions in the 'Cleaning the air conditioner' section.

- Failure to do so may result in damage, electric shock or fire.

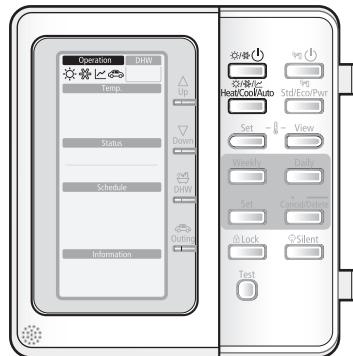
# Overview

## CONTROL PANEL



# Checking the function of buttons and indicators

## SPACE OPERATION MODE

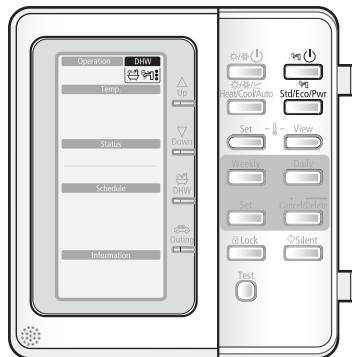


Mode	Button	Display	Function
Operation mode	Space heating & cooling Operation 		<p>It can supply heating and cooling to the space when the <b>Power (Space mode)</b> button is on.</p> <p><b>Results:</b> The heat pump will run in heating or cooling mode.</p>
	Space mode 	Heating	 Using this wired remote controller, only A2W can be operating with heating mode. When the outdoor unit is connected with an external room thermostat, this button will not work.
	HeatCool/Auto	Cooling	 Using this wired remote controller, only A2W can be operating with cooling mode. When the outdoor unit is connected with an external room thermostat, this button will not work.
		Water law	 The supply water temperature to the heating space is operating according to outdoor temperature.



- When you push the **Power (Space mode)** button, It has no influence on the domestic water heating. Domestic water heating only switched on or off according to the **Power (DHW mode)** button.

## DHW OPERATION MODE



Mode	Button	Display	Function
Operation mode	Water heating Operation 		It can supply warm water to the DHW tank when the <b>Power (DHW mode)</b> button is pressed. <b>Results:</b> Heat pump will be turned on with the domestic water heating mode.
	DHW mode 		Economic DHW mode, which is heat pump only, saving energy consumption.
			Standard DHW mode, which is operated by both heat pump and heater. However heater operating time is still restricted.
			Powerful DHW mode, which is operated by both heat pump and heater. In order to supply warm water more quickly, electric heater is operating immediately.



- When you push the **Power (Space mode)** button, it has no influence on the domestic water heating. Domestic water heating only switched on or off according to the **Power (DHW mode)** button.
- If the DHW tank is not installed, the DHW operation mode will not be available.

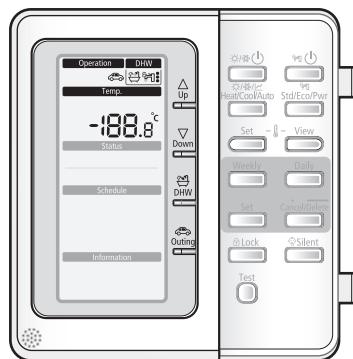
# Checking the function of buttons and indicators

## TEMPERATURE ADJUSTMENT



Mode	Button	Display	Function
Operation mode	Temperature Adjust 		To push up and down, modulate the water (Air) temperature.  Supply water temperature to the load Domestic water temperature Room temperature Outdoor temperature Water law temperature  <b>Results:</b> The  or  will be displayed on the controller.
			This button is used to find the current setting point which you want to change.  According to Dip switch setting and operating modes, available setting points will be displayed by pressing buttons in order.
			Find the temperature which you want to view. →  →  →  →  <b>Results :</b> Current temperature will be displayed in order.

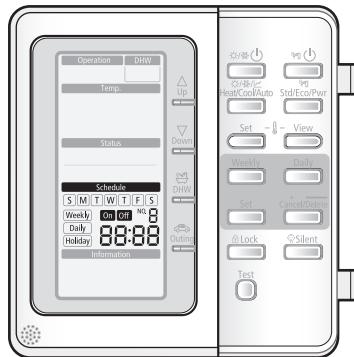
## HOT KEY



Mode	Button	Display	Function
Hot key	Up △ Up	-188.8 °C	To adjust set point temperature, press arrows up or down. <b>Results:</b> The temperature can be set ranges from 5°C to 55°C and be adjusted by 0.5°C increments.
	Down ▽ Down		
	DHW ↗ DHW	↗ DHW	When the DHW hot key is enabled, both booster heater in the DHW tank and heat pump operate with full capacity for the sanitary hot water only.
	Outing ↘ Outing	↘	Lowers each target temperature of operation modes with pre-defined values stored in the Field Setting Value sector of Wired Remote Controller. Keeps the house at lower temperature to save your running cost, you can use this button while having a vacation.

# Checking the function of buttons and indicators

## SCHEDULE



Mode	Button	Display	Function
Schedule	A group of four buttons: 'Weekly', 'Daily', 'Set', and 'Cancel/Delete'.	A digital display showing the 'On/Off' status, 'Weekly', 'Daily', and 'Holiday' buttons, and the current time '08:00'.	The system operates according to a certain schedule which is pre-defined by users or installers. These schedule setting button is used to program the controller.

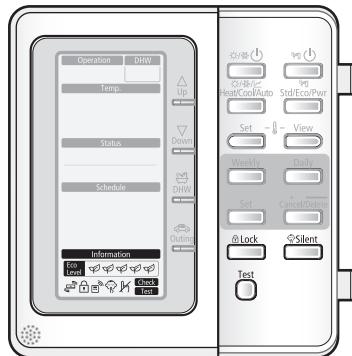
## STATUS INDICATOR



Mode	Status	Display	Function
Status	Compressor On		This icon indicates that the compressor in the outdoor unit is running.
	Back-up heater On		This icons indicate that the backup heater of the unit is operating, when there is a high demand for heating capacity. The backup heater provides extra heating capacity in case of low ambient outdoor temperature (high heating load).
	Booster heater On		This icon indicates that the booster heater is active. The booster heater provides auxiliary heating for the domestic hot water tank. The booster heater is located in the domestic hot water tank. The icon is not used when the domestic hot water tank is not installed.
	Solar thermal panel On		It indicates when the solar panel is powered on. DHW mode is stopping while solar panel is on in order to save your energy cost.
	Back up boiler On		The Back up boiler shall start to work as soon as outdoor temperature reach to the targeted temperature. Users can adjust the temperature to allow the back up boiler work. The icon shall not be displayed without the Installation of the back up boiler.
	Water pump On		This icon indicates that the circulation pump is active.
	Domestic water On		This icon indicates when the domestic water heating mode is operating.
	Defrost operation On		This icon indicates that the defrost mode is active.
	Anti freezing operation On		The system automatically maintains the water temperature above a freezing point to prevent from freezing-fracture of piping system.
	Sanitary operation On		This function disinfects the DHW tank by periodically heating the domestic water to a specific temperature.

# Checking the function of buttons and indicators

## OPTIONAL FUNCTION INDICATOR



Mode	Button	Display	Function
Optional function	Child Lock @Lock	🔒	The remote controller buttons can be locked to prevent children from changing the settings or from pressing the buttons by accident.
	Thermostat connected	📡	When the room thermostat is connected, the Water-Law operation is active and the water temperature is determined automatically depending upon the outdoor temperature. The more cold the outdoor temperature, the more warm water will be supplied. vice versa.
	Silent mode @Silent	⚡	To maintain the outdoor unit to operate quietly, fan and compressor speed will be limited to a certain value of the speed at a normal operating.
	Not available	✗	This icon is displayed whenever a non-installed option is addressed or a function is not available.
	Test Test	Check Test	Press this button for 5 sec to set Field setting values.
	Energy Indicator	Eco Level leaf icons	It indicates 5 Eco-level of energy consumption according to heat resources (Solar thermal, Backup boiler and heat pump) and outdoor temperature.

# Operating basic function

## AVAILABLE MODE

Samsung air to water heat pump system's operation modes are listed as below.

Heating mode and cooling mode are not available at the same time.

Heating	Cooling	
Operation	DHW	
Water law	Heating + DHW	
Operation	DHW	
Cooling + DHW	Water law + DHW	
Operation	DHW	
DHW	Urgent DHW	
Operation	DHW	
Outing (heating)	Outing (heating + DHW)	
Operation	DHW	

# Operating basic function

## SPACE HEATING OPERATION

In this mode, heating function will be activated as required by target water temperature. Target water temperature is determined in 2 ways as described below.

- Change set value manually.
- Use mode of "Water Law" (Auto mode).

1. Press **Power (Space mode)** button to turn on the heat pump unit.

The heat pump will be turned on in the mode you select.

- Space water heating devices: Radiator or Fan coil unit (field supply)

 In winter season, the heat pump sometimes goes into defrost mode to prevent from the freezing of the outdoor heat exchanger.

 CAUTION The heat pump has a built-in protection mechanism to prevent the unit from being damaged when it is started immediately after being plugged in or stopped, the heat pump will start up after 3 minutes.

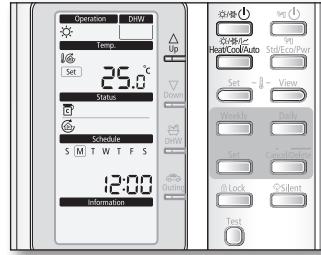
2. Press the **Mode (Space mode)** button once to select the space heating mode.

The heat pump will run on heating mode.

3. Press **Up△** or **Down▽** button to set the desired temperature.

The temperature can be set between 15°C and 55°C.

 The temperature is adjusted by 0.5°C.



## SPACE COOLING OPERATION

In this mode, heating function will be activated as required by target water temperature. Target water temperature is determined in 2 ways as described below.

- Change set value manually.

1. Press **Power (Space mode)** button to turn on the heat pump unit.

The heat pump will be turned on in the mode you select.

- Space water cooling devices: Radiator or Fan coil unit (field supply)



- Heating and cooling mode can not be selected at the same time.
- Space cooling operation is not possible if the installation is a heating only installation.



The heat pump has a built-in protection mechanism to prevent the unit from being damaged when it is started immediately after being plugged in or stopped. The heat pump will start up after 3 minutes.

**2.** Press the **Mode (Space mode)** button twice to select the space cooling mode

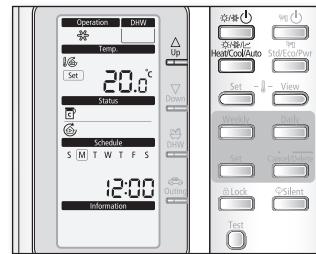
The heat pump will run on cooling mode.

3. Press **Up**△ or **Down**▽ button to set the desired temperature

The temperature can be set between 5°C and 25°C.



The temperature is adjusted by  $0.5^{\circ}\text{C}$ .



# Operating basic function

## WATER LAW

In this mode, heating function will be activated as required by target water temperature. Target water temperature is determined in 2 ways as described below.

- Change set value manually.
- Use mode of “Water Law” (Auto mode).

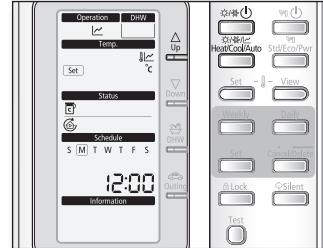
1. Press **Power (Space mode)** button to turn on the heat pump unit.

The heat pump will be turned on in the mode you select.

- Space air heating devices: Radiator or Fan coil unit (field supply)

2. Press the **Mode (Space mode)** button three times to select the mode.

The heat pump will run on heating mode according to the outdoor temperature.

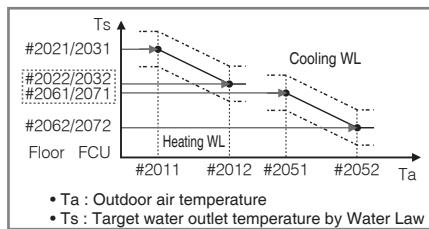


When “Water Law” is active, the target supply water temperature will be determined automatically depending on the outdoor temperature: For heating mode, colder outdoor temperatures will result in warmer water.

3. Press **Up△** or **Down▽** button to set the desired temperature.

When “Water Law” is active, the user has the possibility to shift up or down the target water temperature by a maximum of 5°C.

The field setting temperature is adjusted by 0.5°C.



- All the Field Setting Values needed to re-design the water law for floor or FCU(radiator) can be changed by using Wired Remote Controller's Field Setting Mode.
- There are 2 types of water law for each mode, one for floor application, the other for FCU(radiator). Both of them can be selected by using Wired Remote Controller's Field Setting Mode.
- The target water temperatures exceeding the operation limit of heat pump(5~55°C) after reflecting user's arbitrary input(temperature shift) will be neglected, and be kept maximum or minimum respectively.

## DOMESTIC WATER HEATING OPERATION

In this mode, domestic water heating will be activated as required by the water temperature set point.

- The set point can be set manually.

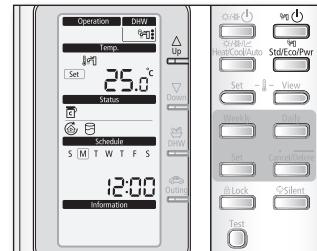
### 1. Press **Power (DHW mode)** button to turn on DHW tank.

The priority between heating/cooling/water-law and DHW modes are depending upon the user's input of Field Setting Value of Wired Remote Controller.

The default priority is on the DHW mode.



- This mode can not be used when the DHW tank is not installed.
- The **Power (Space mode)** button and the **Power (DHW mode)** button can be selected at the same time.
- In order to provide domestic hot water throughout the day, it is advised to keep the domestic water heating operation on continuously.
- When the icon is displayed, hot water is delivered to the DHW tank by the solar panel. The operation between solar panel and heat pump can be determined by using Wired Remote Controller's Field Setting Mode.



### 2. Press **Mode (DHW mode)** button until required operating mode is displayed.

The heat pump will run on selected domestic water heating mode.

- Economic domestic water heating .
- Standard domestic water heating ( may operate)
- Powerful domestic water heating ( operate immediately)

### 3. Press **Up△** or **Down▽** button to set the desired temperature.

The temperature can be set between 30°C and 70°C.



- The temperature is adjusted by 0.5°C.

# Operating basic function

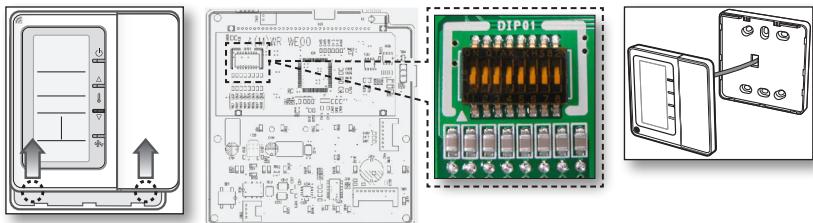
## TARGET ROOM AIR TEMPERATURE OPERATION

In this mode, heating and cooling function will be activated as required by target indoor air temperature. If the indoor's temperature couldn't be satisfied, change the water law shift value. If the thermostat isn't used, the remote controller can be used 2 ways as described below.

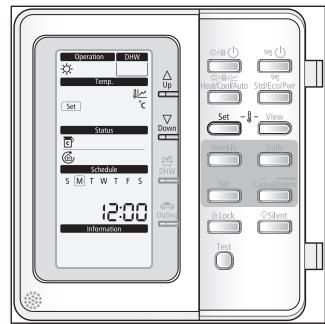
- Operate with target water temperature.
- Operate with target indoor air temperature.

1. Operation of target water temperature is described at page 16~17.
2. Operation of target indoor air temperature is needed to change the setting of the remote controller's dip switch.

 • Please slide the remote controller upper direction, and then the remote controller's rear cover will be separated.  
• Please remove the white plastic sheet from PBA.  
• Turn on the dip s/w #2 only.  
• Turn off the main power and a few second later, turn on the main power again.



1. In the space heating or cooling operation only mode, press the **Set** button, and then setting target indoor air temperature and water law shift value are displayed in the remote controller. Press the **Up**△ or **Down**▽ button to set the desired indoor temperature or water law shift value.
2. In the space heating or cooling + DHW operation mode, press the **Set** button, and then setting target indoor air temperature, water law shift value and DHW's water temperature are displayed in the order. Press the **Up**△ or **Down**▽ button to set the desired indoor temperature, water law shift value or DHW's water temperature.



# Operating hot key function

## URGENT DHW MODE

If you want to enjoy a leisurely bath or need a lot of warm water urgently, select the DHW hot key. When this mode is enabled, it is assured that the full capacity of the heat pump is only delivered for domestic water heating.

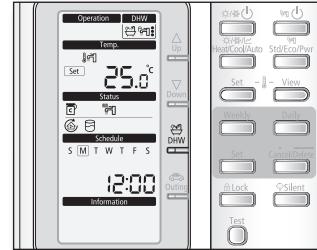
### 1. Press **DHW** Hot key.

The full capacity of the heat pump is only delivered to the DHW tank.

The booster heater is forced to operate until the temperature of DHW tank reaches the set point.



- This hot function can not be used when the DHW tank is not installed.
- If the **Power (DHW mode)** button has not been turned on, this **DHW** key does not work.
- In this DHW function mode, both space heating and floor heating are not available. The  icon is blinking for 3 seconds.
- This hot function remains available when the solar operation.
- The temperature set point is determined by user's input during urgent DHW mode. However, you can adjust the desired temperature using **Up** or **Down** keys.



### To cancel the DHW mode

#### 1. Press **DHW** Hot key once again to exit.

The heat pump is returned to normal operation.



By default field setting value option, this function will not be turned off automatically. If you want a hot key function for a certain amount of duration time, change the field setting value of remote controller.

# Operating hot key function

## OUTING MODE

If you want to take a vacation, you can use the Outing hot key. When this mode is enabled, it is assured that the heat pump maintains your house at a lower temperature to save energy cost.

1. Press **Outing** Hot key.

The heat pump delivers heat at a low temperature.

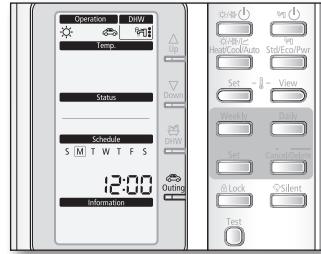
 If the **Power (Space mode)** button has not been turned on, this key does not work.

### To cancel the outing mode

1. Press **Outing** Hot key once again to exit.

The heat pump is returned to normal operation.

 It will return to a normal heating mode or DHW mode.

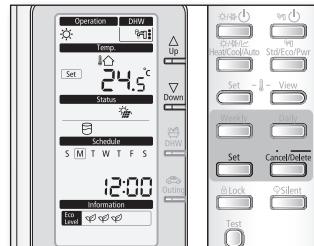


# Operating advanced function

## SETTING THE TIME

Your monobloc unit contains a clock used to start and stop the unit automatically at a given time. You must set the time when you purchase the monobloc unit or reset this system.

1. Push the **Set** button for 3 seconds.
  - Mode : Normal operation.
  - When setting the time, you can only use **Up△**, **Down▽**, **Set**, **Cancel/Delete** button.
  - To cancel the setting, press the **Cancel/Delete** button.



**2.** Set the day by pressing **Up**△ or **Down**▽ button.

The 'day' indicator will blink. Set the day and press **Set** button to save the setting.



3. Set the hour by pressing **Up**△ or **Down**▽ button.

The 'hour' indicator will blink. Set the hour and press **Set** button to save the setting.



4. Set the minute by pressing **Up**△ or **Down**▽ button.

The 'minute' indicator will blink. Set the minute and press **Set** button to save the setting.

After setting the minute, the operation returns to normal.



# Operating advanced function

## SETTING THE 7-DAY(WEEKLY) SCHEDULE

Set the schedules for ON/OFF timer to be repeated each week.  
Maximum 7 schedules may be set for each day.



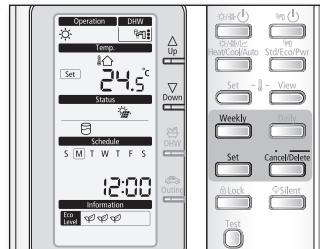
- When using room thermostat, it is impossible to reserve.
- If weekly schedule reserved 7 items is on the same day, it is impossible to reserve.  
In that case, When pressing the **Weekly** button, change the View mode of reservation.
- Setting the weekly schedule is for "Cool & Heat" Mode only.
- It is impossible to reserve several times for the same day and same time.
- Weekly schedule cannot be used with the room thermostat.

### 1. Press the **Weekly** button.

The mode changes to the weekly schedule.

In this mode, you can only use **Up△**, **Down▽**, **Weekly**, **Set**, **Cancel/Delete** button.

To cancel the setting, press the **Cancel/Delete** button.



### 2. Set the day by pressing **Up△** or **Down▽** button.

The On/Off indicator will blink. Set the On/Off status and press **Set** button to save the setting.



### 3. Set the On/Off by pressing **Up△** or **Down▽** button.

The 'On/Off' indicator will blink. Set the On/Off status and press **Set** button to save the setting.

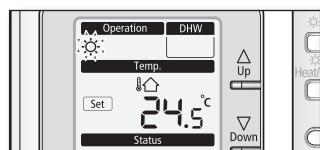


### 4. Set the operation mode by pressing **Up△** or **Down▽** button.

The 'operation indicator' will blink. Set the day and press **Set** button to save the setting.

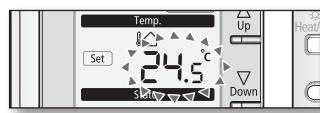


- To set the "Off" reservation, move to the step 6.
- It is impossible to set the Auto( mode).



### 5. Set the temperature by pressing the **Up△** or **Down▽** button.

The 'temperature' will blink. Set the temperature and press **Set** button to save the setting.



### The setting temperature is decided according to Dip S/W #2 of remote controller.

- Dip S/W #2 On : Setting the temperature of indoor.
- Dip S/W #2 Off : Setting the temperature of water outlet.

Continue to the next page

6. Set the hour by pressing the **Up△** or **Down▽** button.

The 'hour' indicator will blink. Set the hour and press **Set** button to save the setting.



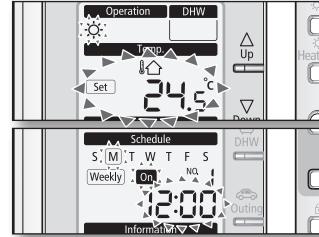
7. Set the minute by pressing the **Up△** or **Down▽** button.

The 'minute' indicator will blink. Set the minute and press **Set** button to save the setting.



8. Confirm the Schedule.

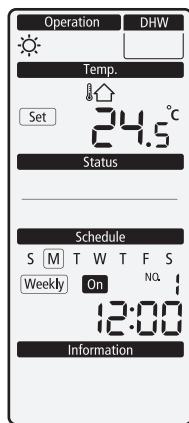
After step 7, all indicators are blinking except "Reservation No", "Weekly". Then press the **Set** button.



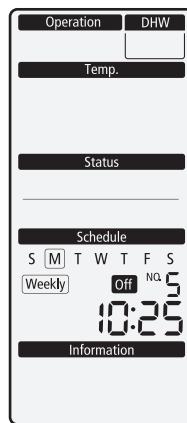
- On this step, you can only use **Set**, **Cancel/Delete** button.
- If there is a reservation on the same day and time, it will not be confirmed and "Not Available" indicator will blink for 3 seconds. In this case, go back to the step 6.

## Viewing the 7-day(Weekly) Schedule (On / Off) Display

**On Reservation**



**Off Reservation**



# Operating advanced function

---

## **SETTING THE 7-DAY(WEEKLY) SCHEDULE**

---

### **Deleting the 7-day (Weekly) schedule**

1. Select the schedule from Reservation View Mode.
2. Push the **Cancel/Delete** button for 3 seconds.
3. The LCD pictures changes to the reservation mode after delete the schedule.

### **Operating the 7-day (Weekly) schedule**

1. Operate automatically according to schedule.
2. If On schedule starts during the Urgent DHW mode, the Urgent DHW mode will change to DHW mode.
3. If Off schedule starts during the Heat/Cool/Auto mode, the operation will stop.

---



In the following conditions, the schedule function will not operate.

- Outing
- Tracking of communication
- Installation of room thermostat

## SETTING THE DAILY SCHEDULE

Set the daily schedule to reserve On / Off timer of DHW (Eco/Std/Power) and Silent mode. At most 15 schedules may be set for day.

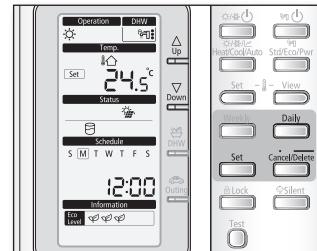
- If the field setting is for no use DHW and use other manufacturer tank, it is impossible to reserve "DHW" mode.
- If daily schedule reserved 15 schedules is on the same day, it is impossible to reserve. In that case, when pressing the **Daily** button, change the View mode of reservation.
- It is impossible to reserve several times for the same time.

### 1. Press the **Daily** button.

The mode changes to the Daily schedule.

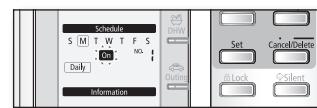
In this mode, you can only use **Up△**, **Down▽**, **Daily**, **Set**, **Cancel/Delete** button.

To cancel the setting, press **Cancel** button.



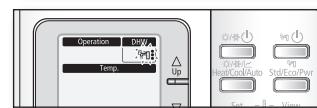
### 2. Set the On/Off by pressing **Up△**, **Down▽** button.

The 'On/Off' indicator will blink. Set the On/Off status and press **Set** button to save the setting.



### 3. Set the operation mode by pressing **Up△** or **Down▽** button.

The 'operation indicator' will blink. Set the operation mode and press **Set** button to save the setting.



- When using other company DHW Tank or setting no use DHW mode, the reservation mode is fixed to "Silent" mode.
- When setting use DHW mode, the mode is changed as followings with **Up△** or **Down▽** button.
  - "On" Mode ; → → () → → .
  - "Off" Mode ; → → .

Continue to the next page

# Operating advanced function

## SETTING THE DAILY SCHEDULE

- Set the hour by pressing the **Up $\Delta$**  or **Down $\nabla$**  button.

The 'hour' indicator will blink. Set the hour and press **Set** button to save the setting.



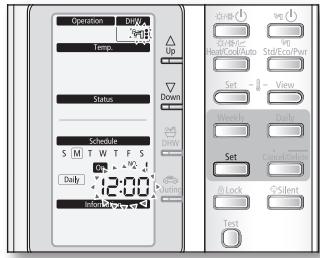
- Set the minute by pressing the **Up $\Delta$**  or **Down $\nabla$**  button.

The 'minute' indicator will blink. Set the minute and press **Set** button to save the setting.



- Confirm the Schedule.

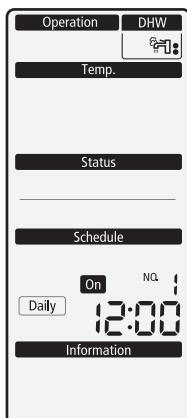
After step 5, all indicators are blinking except "Reservation No", "Daily". Then press **Set** button.



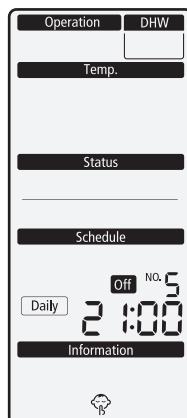
- On this step, you can only use **Set** or **Cancel/Delete** button.
- If there is a reservation on the same day and time, it will not be confirmed and "Not Available" indicator will blink for 3 seconds. In this case, go back to the step 4.

## Viewing the Daily Schedule (On / Off) Display

**On Reservation**



**Off Reservation**



## Deleting the daily schedule

1. Select the schedule from Reservation View Mode.
2. Push the **Cancel/Delete** button for 3 seconds.
3. The LCD pictures change to the reservation mode after deleting the schedule.

## Operating the daily schedule

1. Operate automatically according to schedule.
2. If On schedule starts during the Urgent DHW mode, the Urgent DHW mode will be turned off.



In the following conditions, the schedule function will not operate.

- Outing
- Tracking of communication
- Installation of room thermostat
- If the field setting is set for without DHW or another manufacturers tank is used, it is not possible to reserve DHW mode.
- If the field setting is set for not using the booster heater, it is not possible to reserve Pwr DHW mode.

# Operating advanced function

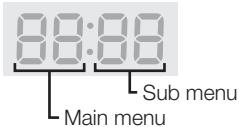
## FIELD SETTING MODE

### Setting the Field Setting Value of wired remote controller

Field setting mode is to adjust specific functions in accordance with customer's demands.

Field setting mode is easy-to-access and programmable by the wired remote controller.

Field setting values are consisted of 4 digits.



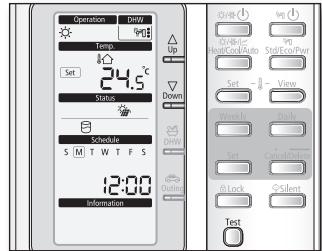
Adjusting filed setting values is available in the unit operation.

1. Press the **Test** button for 5 seconds.

The mode changes to the field setting.

 In this mode, you can only use **Up $\Delta$** , **Down $\nabla$** , **Set**, **Cancel/Delete** button.

To cancel the setting, press **Cancel/Delete** button.



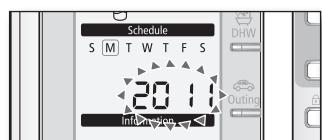
2. Set the Main Menu by pressing **Up $\Delta$**  or **Down $\nabla$**  button.

The "Number" will blink. Set the Main menu and press **Set** button to save the setting.



3. Set the Sub Menu by pressing **Up $\Delta$**  or **Down $\nabla$**  button.

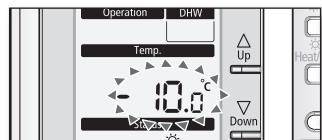
The "Number" will blink. Set the Sub menu by pressing **Up $\Delta$**  or **Down $\nabla$**  button. Then press **Set** button to save the setting.



4. Set the Operation Range(Field Setting) by pressing **Up $\Delta$**  or **Down $\nabla$**  button.

The digits in "Temp" category will blink. Set the Field Setting Value by pressing **Up $\Delta$**  or **Down $\nabla$**  button. Then press **Set** button to save the settings.

After 5 seconds, The LCD shall go back to initial display. If no input for setting value changes, the LCD shall go back to initial display after 30 seconds.



## Field Setting Value (FSV) Table

 Reset the power after changing the Field Setting Value.

- Code 10\*\* : Upper and lower temperature limits of each operation mode of wired remote controller Heating(Water Out, Room), Cooling(Water Out, Room), DHW(Tank)
- Code 20\*\* : Water law design and external room thermostat Heating(2 WL's for floor & FCU), Cooling(2 WL's for floor & FCU), WL & Thermostat types

Field Setting Value								
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit
Remote Controller Setting Range Code 10**	Water Out Temp for Cooling	Max	**11	25	18	25	1	°C
		Min	**12	16	5	18	1	°C
	Room Temp for Cooling	Max	**21	30	24	30	1	°C
		Min	**22	18	18	22	1	°C
	Water Out Temp for Heating	Max	**31	55	37	55	1	°C
		Min	**32	25	15	37	1	°C
	Room Temp for heating	Max	**41	30	24	30	1	°C
		Min	**42	16	16	22	1	°C
	DHW Tank Temp	Max	**51	50	50	70	1	°C
		Min	**52	40	30	40	1	°C
	Back light timer	Time	**61	5	0	30	1	sec
Water Law Code 20**	Outdoor Temp for Water Law (Heating)	Point ①	**11	-10	-20	5	1	°C
		Point ②	**12	15	10	20	1	°C
	Water Out Temp for WL1 Heating (WL1-Floor)	Point ①	**21	40	17	55	1	°C
		Point ②	**22	25	17	55	1	°C
	Water Out Temp for WL2 Heating (WL2-Fan Coil Unit)	Point ①	**31	50	17	55	1	°C
		Point ②	**32	35	17	55	1	°C
	Heating Water Law for Auto Mode	WL Type	**41	1(WL1)	1	2(WL2)	-	-
	Outdoor Temp for Water Law (Cooling)	Point ①	**51	30	25	35	1	°C
		Point ②	**52	40	35	45	1	°C
	Water Out Temp for WL1 Cooling (WL1-Floor)	Point ①	**61	25	18	25	1	°C
		Point ②	**62	18	5	18	1	°C
	Water Out Temp for WL2 Cooling (WL2-Fan Coil Unit)	Point ①	**71	18	18	25	1	°C
		Point ②	**72	5	5	18	1	°C
	Cooling Water Law	WL Type	**81	1(WL1)	1	2(WL2)	-	-
	External Thermostat Application	#1(Floor)	**91	0(No)	0	1(Yes)	-	-
		#2(FCU)	**92	0(No)	0	1(Yes)	-	-

# Operating advanced function

## FIELD SETTING MODE

- Code 30\*\* : User's options for domestic hot water(DHW) tank heating

3011 : Application of DHW tank in user's system

302\* : Heat pump variables for tank temp. control and combination with booster heater

303\* : Booster heater variables for combination with heat pump

304\* : Periodical disinfection heating of water tank

305\* : Off timer for power DHW mode by hot key of wired remote controller

3061 : Combination of external field solar panel for with heat pump for DHW heating

307\* : Default direction of the DHW valve or Zone #1, #2 valve

When the 3way valve is applied to DHW Valve terminal block instead of 2way valve, default direction is Space Heating (Room)

Field Setting Value								
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit
DHW Code 30**	Domestic Hot Water Tank	Application	**11	0(No)	0	1(Yes)	-	-
	Heat Pump	Max Temp	**21	50	45	55	1	°C
		Stop	**22	2	2	10	1	°C
		Start	**23	5	1	20	1	°C
		Min. Space heating operation time	**24	5	0	20	1	min
		Max. DHW operation time	**25	30	5	95	5	min
		Max. Space heating operation time	**26	3	0	10	0.5	hour
	Booster Heater	Application	**31	1(On)	0(OFF)	1	-	-
		Delay Time	**32	20	20	95	5	min
		Overshoot	**33	0	0	4	1	°C
		Compensation Temp	**34	10	0	20	1	°C
	Disinfection	Application	**41	1(On)	0(OFF)	1	-	-
		Interval	**42	Fri	Mon	Sun	1(All)	day
		Start Time	**43	23	0	23	1	o'clock
		Target Temp	**44	70	40	70	5	°C
		Duration	**45	10	5	60	5	min
	Power DHW by User Input	Timer OFF Function	**51	0(Off)	0	1(On)	-	-
		Timer Duration	**52	60	30	300	10	min
	Solar Panel	H/P Combination	**61	0	0	1(Yes)	-	-
	Direction of DHW valve	DHW Tank	**71	0(Room)	0	1(Tank)	-	-

- Code 40\*\*\* : User's options for heating devices including internal backup heater and external boiler
  - 401\* : Space/DHW heating priority and control variables
  - 402\* : Backup/Booster heater priority and control variables
  - 403\* : Additional backup boiler operating variables
- Code 50\*\*\* : User's options for extra functions
  - 501\* : New target temperatures of each mode by "Outgoing" hot key of remote controller
  - 5021 : Temperature difference between before & after values in "Economic" DHW mode
  - 504\* : Power Peak control for Smart Grid

Field Setting Value								
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit
Heating Code 40***	Heat Pump	Heating/DHW Priority	**11	0(DHW)	0	1(Heating)	-	-
		Outdoor Temp for Priority	**12	0	-15	20	1	°C
		Heating Off	**13	35	14	35	1	°C
		Overshoot	**14	2	1	4	1	°C
	Backup Heater	Application	**21	1(Off)	0	1(On)	-	-
		BUH/BSH Priority	**22	0(Both)	0	2(BSH)	1	-
		Cold weather compensation	**23	1(On)	0(Off)	1	-	-
		Threshold Temp	**24	0	-15	35	1	°C
		Defrost Backup Temp.	**25	15	10	55	5	°C
	Backup Boiler	Application	**31	0(No)	0	1(Yes)	-	-
		Boiler Priority	**32	0(Off)	0	1(On)	-	-
		Threshold Temp	**33	-15	-20	5	1	°C
Others Code 50***	Outing	Water Out Temp for Cooling	**11	25	5	25	1	°C
		Room Temp for Cooling	**12	30	18	30	1	°C
		Water Out Temp for Heating	**13	15	15	55	1	°C
		Room Temp for Heating	**14	16	16	30	1	°C
		Auto Cooling WL1 Temp	**15	25	5	25	1	°C
		Auto Cooling WL2 Temp	**16	25	5	25	1	°C
		Auto Heating WL1 Temp	**17	15	15	55	1	°C
		Auto Heating WL2 Temp	**18	15	15	55	1	°C
		Target Tank Temp	**19	30	30	70	1	°C
	DHW Saving Mode	Temp Difference	**21	5	0	40	1	°C
	Power Peak Control	Application	**41	0(No)	0	1(Yes)	-	-
		Select forced off parts	**42	0	0	2	-	-
		Using input voltage	**43	1(High)	0(Low)	1	-	-

- Code 5042

[D-00]	Compressor	Back up heater	Booster heater
0 (Default)	Forced off	Forced off	Forced off
1	Forced off	Forced off	Permitted
2	Permitted	Forced off	Forced off

# Operating advanced function

## FIELD SETTING MODE

### Remote Controller Setting Range : Code 10\*\*

Field Setting Value									
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit	
Remote Controller Setting Range Code 10**	Water Out Temp for Cooling	Max	**11	25	18	25	1	°C	
		Min	**12	16	5	18	1	°C	
	Room Temp for Cooling	Max	**21	30	24	30	1	°C	
		Min	**22	18	18	22	1	°C	
	Water Out Temp for Heating	Max	**31	55	37	55	1	°C	
		Min	**32	25	15	37	1	°C	
	Room Temp for heating	Max	**41	30	24	30	1	°C	
		Min	**42	16	16	22	1	°C	
	DHW Tank Temp	Max	**51	50	50	70	1	°C	
		Min	**52	40	30	40	1	°C	
	Back light timer	Time	**61	5	0	30	1	sec	

#### Space Cooling

- Target water outlet temperature : Upper limit(#1011, Default 25°C, Range : 18 ~ 25°C), Lower limit(#1012, Default 16°C, Range : 5 ~ 18°C)  
- With this default FSV settings, user can change the target water outlet temperature within the range of 5 ~ 25°C for cooling.
- Target room temperature : Upper limit(#1021, Default 30°C, Range : 24 ~ 30°C), Lower limit(#1022, Default 18°C, Range : 18 ~ 22°C)  
- With this default FSV settings, user can change the target room temperature within the range of 18 ~ 30°C for cooling.
-  • The #1 DIP switch in the wired remote controller should be set to “OFF”(Default) for cooling operation of heat pump.
- The #2 DIP switch in the wired remote controller should be set to “OFF”(Default) to control the water outlet temperature.
- The #2 DIP switch in the wired remote controller should be set to “ON” to control the room temperature.

#### Space Heating

- Target water outlet temperature : Upper limit(#1031, Default 55°C, Range : 37 ~ 55°C), Lower limit(#1032, Default 25°C, Range : 15 ~ 37°C)  
- With this default FSV settings, user can change the target water outlet temperature within the range of 25 ~ 55°C for heating.
- Target room temperature : Upper limit(#1041, Default 30°C, Range : 24 ~ 30°C), Lower limit(#1042, Default 16°C, Range : 16 ~ 22°C)  
- With this default FSV settings, user can change the target room temperature within the range of 16 ~ 30°C for heating.
-  • The #2 DIP switch in the wired remote controller should be set to “OFF”(Default) to control the water outlet temperature.
- The #2 DIP switch in the wired remote controller should be set to “ON” to control the room temperature.

#### DHW Heating

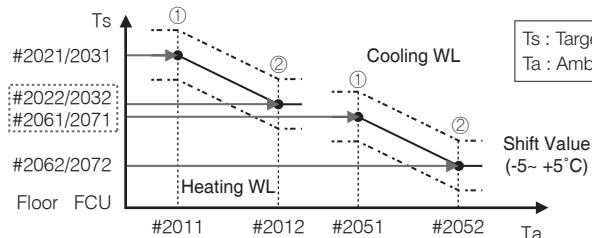
- Target DHW tank temperature : Upper limit(#1051, Default 50°C, Range : 50 ~ 70°C), Lower limit(#1052, Default 40°C, Range : 30 ~ 40°C)  
- With this default FSV settings, user can change the target tank temperature within the range of 40 ~ 50°C for DHW heating.

 The FSV #3011 in the wired remote controller should be set to “1(Yes)” to use DHW function.

#### Back Light

- Remote controller's back light timer : #1061, Default 5sec, Range : 0 ~ 30sec  
- With this FSV settings, user can change the time to back light within the range of 0 ~ 30sec.

## Water Law & Room Thermostat : Code 20\*\*\*



Field Setting Value									
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit	
Water Law Code 20***	Outdoor Temp for Water Law (Heating)	Point ①	**11	-10	-20	5	1	°C	
		Point ②	**12	15	10	20	1	°C	
	Water Out Temp for WL1 Heating (WL1-Floor)	Point ①	**21	40	17	55	1	°C	
		Point ②	**22	25	17	55	1	°C	
	Water Out Temp for WL2 Heating (WL2-Fan Coil Unit)	Point ①	**31	50	17	55	1	°C	
		Point ②	**32	35	17	55	1	°C	
	Heating Water Law for Auto Mode	WL Type	**41	1(WL1)	1	2(WL2)	-	-	
	Outdoor Temp for Water Law (Cooling)	Point ①	**51	30	25	35	1	°C	
		Point ②	**52	40	35	45	1	°C	
	Water Out Temp for WL1 Cooling (WL1-Floor)	Point ①	**61	25	18	25	1	°C	
		Point ②	**62	18	5	18	1	°C	
	Water Out Temp for WL2 Cooling (WL2-Fan Coil Unit)	Point ①	**71	18	18	25	1	°C	
		Point ②	**72	5	5	18	1	°C	
	Cooling Water Law	WL_Type	**81	1(WL1)	1	2(WL2)	-	-	
	External Thermostat Application	#1(Floor)	**91	0(No)	0	1(Yes)	-	-	
		#2(FCU)	**92	0(No)	0	1(Yes)	-	-	

### Water Law for Heating

- Outdoor air temperature range : Lower limit ①(#2011, Default -10°C, Range : -20 ~ 5°C), Upper limit ②(#2012, Default 15°C, Range : 10 ~ 20°C)
  - With this default settings, the water outlet temperature by heating water law can be changed within the outdoor temperature range of -10 ~ 15°C.
- Water out temperature range for floor/FCU applications respectively :
  - Upper limit ①(#2021/2031, Default 40/50°C, Range : 17 ~ 55°C), Lower limit ②(#2022/2032, Default 25/35°C, Range : 17 ~ 55°C)
    - With this default settings, the water outlet temperature by heating water law can be changed within the range of 25/35 ~ 40/50°C.
- Type of water law for according to heating devices(floor/FCU) : #2041(Default “1”(WL1 for floor), “2”(WL2 for FCU or radiator))



- The #2 DIP switch in the wired remote controller should be set to “OFF”(Default) to control the water outlet temperature.
- The operation mode of the wired remote controller should be set to “AUTO”(↖) to use the weather dependent water law scheme.

# Operating advanced function

---

## FIELD SETTING MODE

---

### Water Law for Cooling

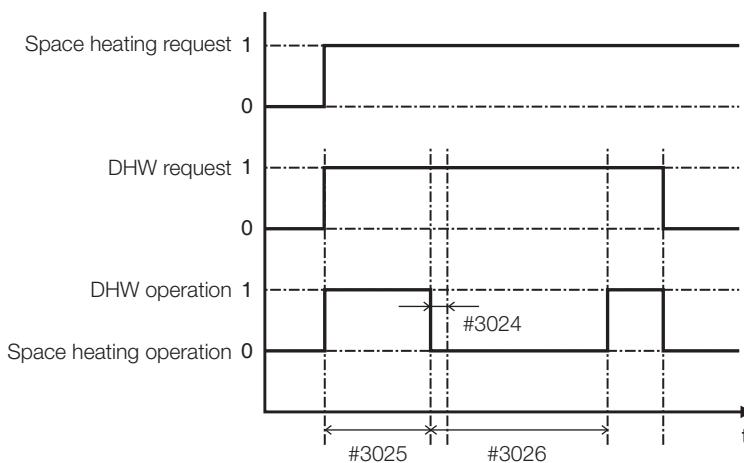
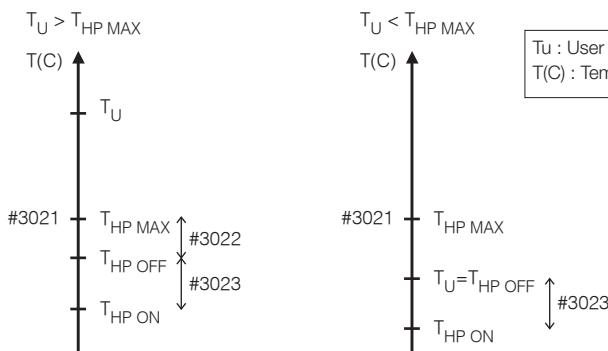
- Outdoor air temperature range : Lower limit ①(#2051, Default 30°C, Range : 25 ~ 35°C),  
Upper limit ②(#2052, Default 40°C, Range : 35 ~ 45°C)
  - With this default settings, the water outlet temperature by cooling water law can be changed within the outdoor temperature range of 30 ~ 40°C.
- Water out temperature range for floor/FCU applications respectively :  
Upper limit ①(#2061/2071, Default 25/18°C, Range : 18 ~ 25°C), Lower limit ②(#2062/2072, Default 18/5°C, Range : 5 ~ 18°C)
  - With this default settings, the water outlet temperature by cooling water law can be changed within the range of 18/5 ~ 25/18°C.
- Type of water law for according to cooling devices(floor/FCU) : #2081(Default "1"(WL1 for floor), "2"(WL2 for FCU or radiator))
  -  • The #1 DIP switch in the wired remote controller should be set to "OFF"(Default) for cooling operation of heat pump.
  - The #2 DIP switch in the wired remote controller should be set to "OFF"(Default) to control the water outlet temperature.
  - Only heating WL operation could be used through "Auto" mode of wired remote controller.

### External Room Thermostat (Field Option)

- Terminal #1(#2091, Default "0" for no usage), #2(#2092, Default "0" for no usage)
  - To use wired remote controller for heating/cooling operation, both of the above settings should be set to "0" simultaneously. If not, thermostat controls system.
  - Types of water law used by room thermostat operation will follow the FSV settings defined in #2041(heating) and #2081(cooling) respectively.
  - During the thermostat operation, the user has the possibility to shift up or down the target water temperature within the range of -5 ~ +5°C.
- When the remote controller is used, floor valve should be connected to zone #1 and the FCU valve should be separately connected to zone #2 of the Hydro Unit PBA.
- When only floor cooling/heating is installed and if the Water Law or outlet water temperature is too low, 2way valve may closed and E911 error may occur.
- When the floor and FCU units are installed together and operating in cooling mode, floor valve may close and E911 may occur to prevent floor condensation when the outlet water temperature is below 16°C. Therefore FCU should secure minimum value for the flow rate.
- Thermostat #2 which controls FCU has the priority for operation modes and the discharge water temperature.
- Samsung is not responsible for the accidents such as floor condensations which can occur by not connecting the valve to the zone #1 port of the Hydro Unit PBA.

## DHW Heating : Code 30\*\*

ENGLISH



# Operating advanced function

## FIELD SETTING MODE

Field Setting Value									
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit	
DHW Code 30***	Domestic Hot Water Tank	Application	**11	0(No)	0	1(Yes)	-	-	
	Heat Pump	Max Temp	**21	50	45	55	1	°C	
		Stop	**22	2	2	10	1	°C	
		Start	**23	5	1	20	1	°C	
		Min. Space heating operation time	**24	5	0	20	1	min	
		Max. DHW operation time	**25	30	5	95	5	min	
	Booster Heater	Max. Space heating operation time	**26	3	0	10	0.5	hour	
		Application	**31	1(On)	0(OFF)	1	-	-	
		Delay Time	**32	20	20	95	5	min	
		Overshoot	**33	0	0	4	1	°C	
		Compensation Temp	**34	10	0	20	1	°C	
	Disinfection	Application	**41	1(On)	0(OFF)	1	-	-	
		Interval	**42	Fri	Mon	Sun	1(All)	day	
		Start Time	**43	23	0	23	1	o'clock	
		Target Temp	**44	70	40	70	5	°C	
		Duration	**45	10	5	60	5	min	
	Power DHW by User Input	Timer OFF Function	**51	0(Off)	0	1(On)	-	-	
		Timer Duration	**52	60	30	300	10	min	
	Solar Panel	H/P Combination	**61	0	0	1(Yes)	-	-	
	Direction of DHW valve	DHW Tank	**71	0(Room)	0	1(Tank)	-	-	

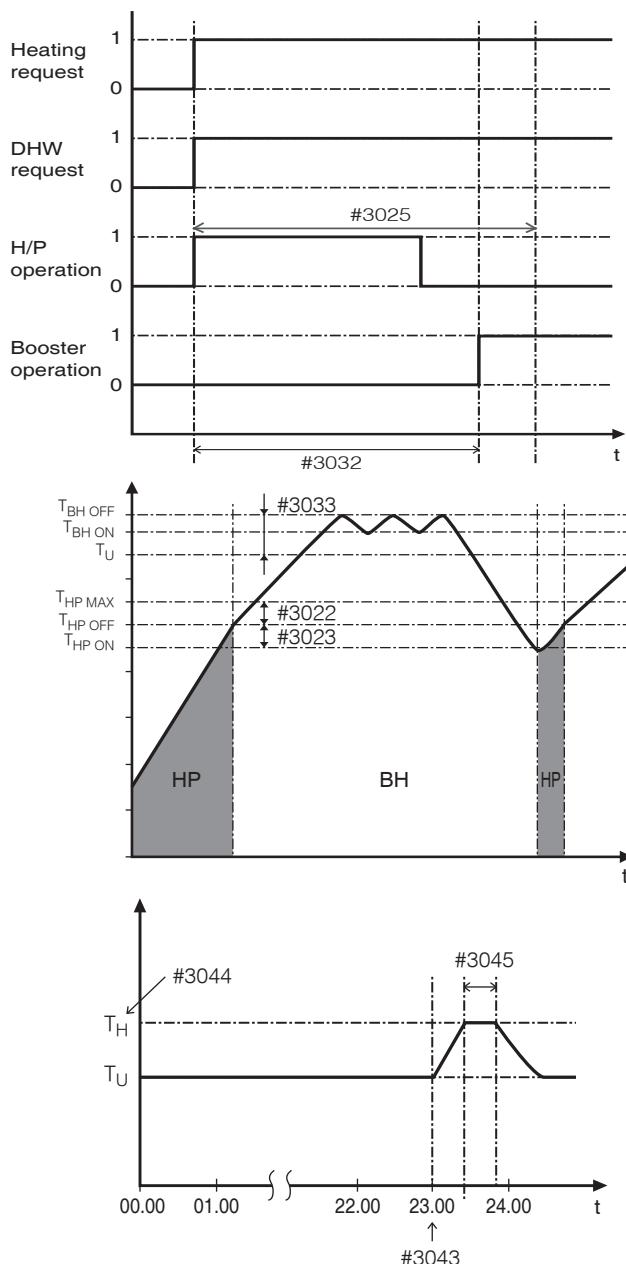
### DHW Application

The FSV #3011 in the wired remote controller should be set to "1(Yes)" to use DHW function.

### Heat Pump Variables for Controlling DHW Tank

- Maximum DHW tank temperature with R410A(refrigerant) heat pump operation : FSV #3021, Default 50°C, Range : 45 ~ 55°C.
- Temperature difference determining the heat pump OFF temperature : FSV #3022, Default 2°C, Range : 2 ~ 10°C.
- Temperature difference determining the heat pump ON temperature : FSV #3023, Default 5°C, Range : 1 ~ 20°C.
- DHW heating mode timer : Mode timer manage the operation terms when there are simultaneous requests of space heating/cooling and DHW.
  - FSV #3024(minimum Space heating operating time, Default 5 min., Range 0 ~ 20 min.), #3025(maximum DHW time, Default 30 min., Range 5 ~ 95 min.), #3026(maximum space heating operation time, Default 3 hour, Range 0 ~ 10 hour)
  - Maximum operation time is applied only when both DHW and Space heating request operation. DHW or Space heating operates continuously until reaching at target temperature without time limitation in the single operation.

 The FSV #4011 for DHW priority should be set to "0(DHW)"(Default). Space heating gets a priority by setting FSV #4011 "1", but this is only valid when the outdoor temperature is lower than the specified temperature defined by FSV #4012.



# Operating advanced function

---

## FIELD SETTING MODE

---

### Booster Heater Variables for Controlling DHW Tank

- The FSV #3031 should be set to "1(On)"(Default) to use booster heater as an additional heat source for DHW tank.
- Booster heater startup delay timer : In case of DHW request, this timer will delay the operation of booster heater compared to heat pump.
  - FSV #3032(Default 20 min., Range 20 ~ 95 min.), In "Power" DHW mode, the delay timer will be neglected, and the booster starts immediately.
  - In "Economic" DHW mode, the DHW heating will be conducted only with heat pump.
  - #3032 should be smaller than the maximum H/P time(#3025). If the delay time is set too high, it might take very long time for DHW heating.
- Temperature difference determining the booster heater OFF temperature( $T_{BH\ OFF} = Tu + \#3033$ ) : FSV #3033, Default 0°C, Range : 0 ~ 4°C.
- Temperature difference determining the booster heater ON temperature( $T_{BH\ ON} = T_{BH\ OFF} - 2$ )
- DHW compensation temperature in case of space heating/cooling priority : FSV #3034 will be explained in next page.



The FSV #4022 for booster heater priority should be set to "0(both)"(Default) or "2"(booster) to use booster heater.

If not(backup heater priority), the booster heater can be operated in case of no backup heater demand.

### Disinfection Function

- The FSV #3041 should be set to "1(On)"(Default) to use disinfection function.
  - Scheduling : Day(#3042, Default "Friday"), starting time(#3043, Default "23:00"), target tank temp. (#3044, Default "70°C"), duration(#3045, Default 10 min.)



Disinfection function can be performed only with Samsung's DHW tank installation.

### Urgent DHW by User's Input (Hot Key of Wired Remote Controller)

- Urgent DHW mode can be activated by changing setting value from the default setting (#3011,"0"(No)).
- Urgent DHW mode shall be working depending on Timer setting(#3051, #3052).

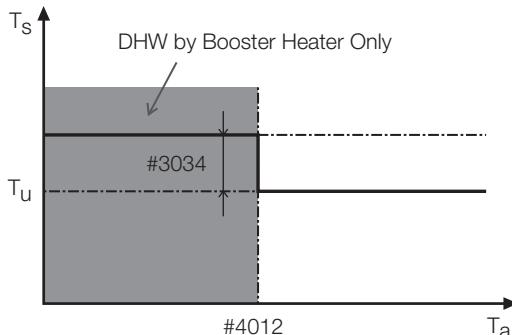
## Additional Solar Panel Installation for DHW with Heat Pump (Field Option)

- Solar panel and heat pump are able to operate simultaneously by default setting value. (FSV #3061, "1"(Yes))
- Solar panel gets a priority by setting "0" in FSV #3061.
- Zone #1 and #2 valve always keep open except DHW mode in "ON" when the power is "ON" unless changing the FSV #3071.  
Default: Room direction valves are open and DHW valve is closed.
- Zone #1 and #2 can be open separately or simultaneously but all three zone valves can not be open or closed at the same time.
- There is one minute delay of 2-way valve closing whereas no delay of valve opening.
- Individual zone control is only available with external thermostat.

# Operating advanced function

## FIELD SETTING MODE

### Space Heating : Code 40\*\*



Field Setting Value								
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit
Heating Code 40**	Heat Pump	Heating/DHW Priority	**11	0(DHW)	0	1(Heating)	-	-
		Outdoor Temp for Priority	**12	0	-15	20	1	°C
		Heating Off	**13	35	14	35	1	°C
		Overshoot	**14	2	1	4	1	°C
	Backup Heater	Application	**21	0(Off)	0	1(On)	-	-
		BUH/BSH Priority	**22	0(Both)	0	2(BSH)	1	-
		Cold weather compensation	**23	1(On)	0(Off)	1	-	-
		Threshold Temp	**24	0	-15	35	1	°C
		Defrost Backup Temp.	**25	15	10	55	5	°C
	Backup Boiler	Application	**31	0(No)	0	1(Yes)	-	-
		Boiler Priority	**32	0(Off)	0	1(On)	-	-
		Threshold Temp	**33	-15	-20	5	1	°C

### Heat Pump Variables for Space Heating

- FSV #4011 for DHW priority is set to "0(DHW)"(Default) as a default. Space heating gets a priority by setting FSV #4011 "1", but this is only valid when the outdoor temperature is lower than the specified temperature defined by FSV #4012.
- Cold weather compensation is applied when the space heating gets a priority (FSV #4011=1). It is due to position of heating coil and booster heater in the water tank. Heating coil is at the bottom part of the water tank and the booster heater is located at the middle part of the tank. So the heating coil is efficient to heat the whole water in the tank. Chances that hot water flows through the heating coil decrease with the space heating priority. And lower part of water in the tank might not get enough heat with the booster heater. Cold weather compensation is raising the booster heater target temperature by temperature of FSV #3034 (default=10°C) higher than the user setting.
- Space heating off temperature(FSV #4013, Default "35°C", Range 14 ~ 35°C): At high outdoor temperature above this value, the space heating will be turned off, to avoid overheating.
- Overshoot temperature(FSV #4014, Default "2°C", Range 1 ~ 4°C): N/A yet

## Backup Heater Variables for Space Heating

- The FSV #4021 should be set to “0(Off)”(Default) to use 2-stage electric backup heater in hydro unit as an additional heat source.
- To compensate the lowered heat pump heating performance under very cold weather conditions, the FSV #4023 should be set to “1(On)”(Default).
  - The threshold temperature to use backup heater for cold weather compensation: FSV #4024, Default “0°C”, Range -15 ~ 35°C
  - The backup heater operation is restricted to save energy in the threshold temperature range.
- The FSV #4022 for backup heater priority should be set to “0(both)”(Default) or “1”(backup) to use backup heater. If not(booster heater priority), the backup heater can be operated in case of no booster heater demand.
- The threshold temperature for backup heater operation during defrost mode to prevent cold draft because of chilled water can be controlled by adjusting FSV #4025. Under FSV #4025 of water outlet temperature, backup heater Will be turned on.



To use both heaters together at the same time, please check the capacity of the power circuit breaker of your house before use.

## External Backup Boiler for Space Heating (Field Option)

- The FSV #4031 should be set to “1(Yes)” to use a backup boiler as an additional heat source. (default: “0 (No installation)”)
- Priority of backup boiler and heat pump is defined by FSV #4032 (default: “0(OFF)”)
- To compensate the lowered heat pump heating performance under very cold weather conditions, the backup boiler operates instead of heat pump under the threshold temperature (FSV #4033, Default “-15°C”, Range -20 ~ 5°C).

# Operating advanced function

## FIELD SETTING MODE

Others : Code 50\*\*

Field Setting Value								
Main Menu & Code	Sub Menu Function	Description	Sub Code	Default	Min	Max	Step	Unit
Others Code 50**	Outing	Water Out Temp for Cooling	**11	25	5	25	1	°C
		Room Temp for Cooling	**12	30	18	30	1	°C
		Water Out Temp for Heating	**13	25	15	55	1	°C
		Room Temp for Heating	**14	16	16	30	1	°C
		Auto Cooling WL1 Temp	**15	25	5	25	1	°C
		Auto Cooling WL2 Temp	**16	25	5	25	1	°C
		Auto Heating WL1 Temp	**17	15	15	55	1	°C
		Auto Heating WL2 Temp	**18	15	15	55	1	°C
		Target Tank Temp	**19	30	30	70	1	°C
	DHW Saving Mode	Temp Difference	**21	5	0	40	1	°C
	Power Peak Control	Application	**41	0(No)	0	1(Yes)	-	-
		Select forced off parts	**42	0	0	2	-	-
		Using input voltage	**43	1(High)	0(Low)	1	-	-

### Outing Mode (Hot Key of Wired Remote Controller)

- All the target temperatures – space heating and cooling, water law, DHW, Room temperature – are set to the values defined in the above table under the holiday mode (outing hot key)

 With the lowered target temperatures (FSV #5011 ~ #5019), the system operates normally.

### Economic DHW Heating

- DHW heating only by the heat pump to save energy. Target DHW temperature is lower than the temperature set by user. The temperature difference is defined by FSV #5021. (default: 5°C)
  - If user sets the temperature 45°C, the system sets the target temperature 40°C with the default setting.

## Peak Power Control

- If users make contracts with local electric power company for limiting the amount of power consumption when a surge in power usage, users can set FSV of "Forced off".
- According to FSV (#5041), Default is Non-usage. And According to FSV (#5042), If input is "0(default)", all the thermal applications are unavailable while external contacts is high.  
If input is " 1", Only the booster heater is available.  
If input is " 2", Only the back up heater is available.
- Applying the control when power voltage of input contact is high is default. According to FSV (#5043), it is available to adopt this logic in low condition exceptionally.
- When applying to this logic, SAMSUNG controller come to get "Thermo off" condition for all operation.
- If not used for a long time, anti-freeze fluid shall be used for preventing damage to the unit in cold condition.

# Appendix

## TEMPERATURE TABLE

### Available operation range

Mode	Target temperature	Display		Setting range		Current display	Setting method	Control method
		Set	View	Default	Available			
Cooling	Leaving water	O	O	16~25°C	<ul style="list-style-type: none"> <li>• Min : 5~18°C</li> <li>• Max : 18~25°C</li> </ul>	-50~94°C	Up/Down	-
Heating	Leaving water	O	O	25~55°C	<ul style="list-style-type: none"> <li>• Min : 15~37°C</li> <li>• Max : 37~55°C</li> </ul>	-50~94°C	Up/Down	-
Water Law	Cooling	Outdoor	X	X	30~40°C	<ul style="list-style-type: none"> <li>• Min : 25~35°C</li> <li>• Max : 35~45°C</li> </ul>	-50~94°C	Thermostat (Th-1 : Floor, Th-2 : FCU)
		Leaving water (WL1-Floor)	X	X	25~18°C	<ul style="list-style-type: none"> <li>• Min : 18~25°C</li> <li>• Max : 5~18°C</li> </ul>	-50~94°C	
		Leaving water (WL2-FCU)	X	X	18~5°C	<ul style="list-style-type: none"> <li>• Min : 18~25°C</li> <li>• Max : 5~18°C</li> </ul>	-50~94°C	
	Heating	Outdoor	X	X	-10~15°C	<ul style="list-style-type: none"> <li>• Min : -20~5°C</li> <li>• Max : 10~20°C</li> </ul>	-50~94°C	
		Leaving water (WL1-Floor)	X	X	40~25°C	<ul style="list-style-type: none"> <li>• Min : 17~55°C</li> <li>• Max : 17~55°C</li> </ul>	-50~94°C	
		Leaving water (WL2-FCU)	X	X	50~35°C	<ul style="list-style-type: none"> <li>• Min : 17~55°C</li> <li>• Max : 17~55°C</li> </ul>	-50~94°C	
	Temperature Shifting	O	X	-5~5°C	Default	-	Up/Down	-
DHW	DHW tank	O	O	40~50°C	<ul style="list-style-type: none"> <li>• Min : 30~40°C</li> <li>• Max : 50~70°C</li> </ul>	-50~94°C	Up/Down	-
Outdoor temperature		X	O	-	-	-50~94°C	-	

### DIP SWITCH SETTING

S/W	OFF (Default)	ON
S/W #1	Heating and Cooling	Heating only
S/W #2	Target temp : Water outlet Temp.	Target temp : Indoor air Temp.
S/W #4	MASTER remote controller	SLAVE remote controller
S/W #5	Self Test Mode is NOT available	Self Test Mode is available
S/W #6	Emergency Operation OFF	Emergency Operation ON
S/W #7	°C	°F
S/W #8	No Use	No Use

# MAINTAINING THE UNIT

---

## Maintenance activities

- In order to ensure optimal availability of the unit, a number of checks and inspections on the unit and the field wiring have to be carried out at regular intervals, preferably yearly. This maintenance should be carried out by SAMSUNG local technician. Besides keeping the remote controller clean by means of a soft damp cloth, no maintenance is required by the operator.



During longer periods of standstill, e.g. during summer with a heating only application, it is very important NOT TO SWITCH OFF THE POWER SUPPLY towards the unit.

Switching off the power supply stops the automatic repetitive movement of the motor in order to prevent it from getting jammed.

## This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type: R410A

GWP(1) value: 1975 (GWP = global warming potential)

- Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

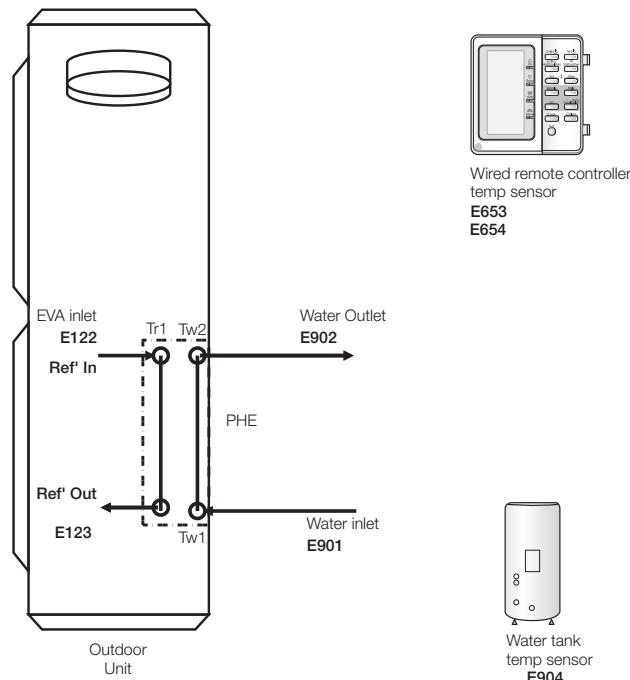
# Appendix

## TROUBLESHOOTING TIPS

If the unit has some problem to work properly, error codes will be displayed on the wired remote controller.

The following table describes the explanation of the error codes.

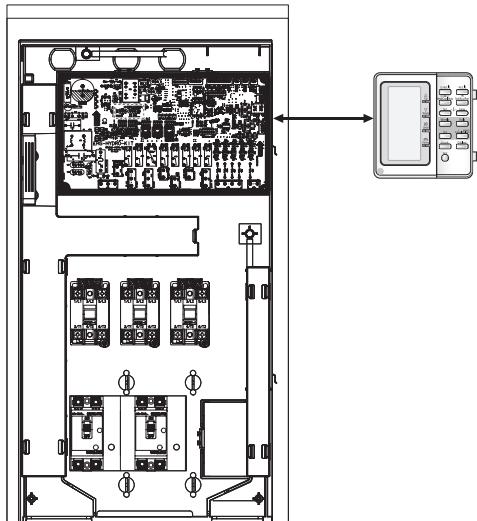
Display	Explanation
122	EVA Inlet temp sensor SHORT or OPEN
123	EVA Outlet temp sensor SHORT or OPEN
653	Wired remote controller temp sensor SHORT or OPEN
654	FRAM Read/Write Error(Wired remote controller data error)
901	Water Inlet temp sensor SHORT or OPEN
902	PHE Outlet temp sensor SHORT or OPEN
903	Water outlet (Back up Heater) temp sensor SHORT or OPEN
904	Water TANK temp sensor SHORT or OPEN



## Communication

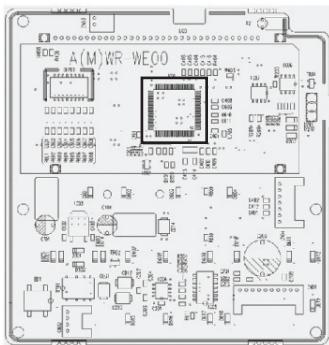
Display	Explanation
<b>603</b>	Abnormal communication B/W Wired remote controller & Hydro Unit
<b>604</b>	Communication tracking error B/W Wired remote controller & Hydro Unit
<b>654</b>	FRAM Read/Write Error(Wired remote controller data error)

E601, E604



E654

- Wrong data transmit B/W micom & IC07(eeprom)



# Appendix

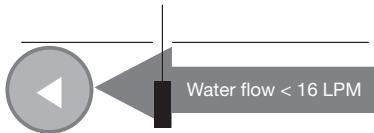
## TROUBLESHOOTING TIPS

### Water pump & Flow S/W

Display	Explanation
	Flow S/W OFF error (In case of flow S/W OFF in 10s during water pump signal is ON)
	Flow S/W OFF error (In case of flow S/W ON in 60s during water pump signal is OFF)

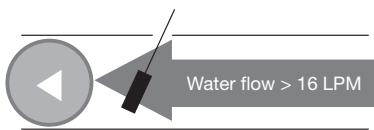
E911

- Water pump ON ( Flow S/W off )
- Water pump ON ( Flow S/W off ) : NOT enough water flow



E912

- Water pump OFF ( Flow S/W on )



## ERROR CODES

If the unit has some problems and does not work normally, error code is shown on the OUTDOOR UNIT main PBA or LCD of the wired remote controller.

Display	Explanation	Error Source
101	Hydro Unit / OUTDOOR UNIT wire connection error	Hydro Unit, OUTDOOR UNIT
162	EEPROM Error	Hydro Unit
201	Hydro Unit/OUTDOOR UNIT communication error (Matching error)	Hydro Unit, OUTDOOR UNIT
202	Hydro Unit/OUTDOOR UNIT communication error (3 min)	Hydro Unit, OUTDOOR UNIT
203	Communication error between INVERTER and MAIN MICOM (6 min)	OUTDOOR UNIT
221	OUTDOOR UNIT temperature sensor error	OUTDOOR UNIT
231	condenser temperature sensor error	OUTDOOR UNIT
251	Discharge temperature sensor error	OUTDOOR UNIT
320	OLP sensor error	OUTDOOR UNIT
403	Detection of OUTDOOR UNIT compressor freezing (During cooling operation)	OUTDOOR UNIT
404	Protection of OUTDOOR UNIT when it is overload (during Safety Start, Normal operation state)	OUTDOOR UNIT
416	Discharge of a compressor is overheated	OUTDOOR UNIT
419	OUTDOOR UNIT EEV operation error	OUTDOOR UNIT
425	Power source line missing error (only for 3-phase model)	OUTDOOR UNIT
440	Heating operation blocked (outdoor temperature over 35°C)	OUTDOOR UNIT
441	Cooling operation blocked (outdoor temperature under 9°C)	OUTDOOR UNIT
458	OUTDOOR UNIT fan1 error	OUTDOOR UNIT
461	[Inverter] Compressor startup error	OUTDOOR UNIT
462	[Inverter] Total current error/PFC over current error	OUTDOOR UNIT
463	OLP is overheated	OUTDOOR UNIT
464	[Inverter] IPM over current error	OUTDOOR UNIT
465	Compressor V limit error	OUTDOOR UNIT
466	DC LINK over/low voltage error	OUTDOOR UNIT
467	[Inverter] Compressor rotation error	OUTDOOR UNIT
468	[Inverter] Current sensor error	OUTDOOR UNIT
469	[Inverter] DC LINK voltage sensor error	OUTDOOR UNIT
470	EEPROM read/write error	OUTDOOR UNIT
471	[Inverter] OTP error	OUTDOOR UNIT

# Appendix

---

## ERROR CODES

---

Display	Explanation	Error Source
474	IPM(IGBT Module) or PFCM temperature sensor Error	OUTDOOR UNIT
475	OUTDOOR UNIT fan2 error	OUTDOOR UNIT
484	PFC Overload Error	OUTDOOR UNIT
485	Input current sensor error	OUTDOOR UNIT
500	IPM is overheated	OUTDOOR UNIT
554	Gas leak error	OUTDOOR UNIT
601	Communication error between the Hydro Unit and wired remote controller	Wired Remote Controller
602	Wired remote controller Master/Slave setting error	Wired Remote Controller
604	Communication tracking error between the Hydro Unit and wired remote controller	Hydro Unit, Wired Remote Controller
607	Communication error between the Master and Slave wired remote controllers	Wired Remote Controller
901	Water inlet (PHE) temperature sensor error(open/short)	OUTDOOR UNIT
902	Water outlet (PHE) temperature sensor error(open/short)	OUTDOOR UNIT
903	Water outlet (backup heater) temperature sensor error.	Hydro Unit
904	DHW tank temperature sensor error	Hydro Unit
906	Refrigerant gas inlet (PHE) temperature sensor (open/short)	OUTDOOR UNIT
911	Flow switch and water pump error (F/S signal is OFF for 10 sec. during the water pump signal is ON)	Hydro Unit
912	Flow switch and water pump error (Water pump signal is OFF for 60sec during the F/S signal is ON)	Hydro Unit

# Memo

---

ENGLISH



## QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	<a href="http://www.samsung.com">www.samsung.com</a>
BELGIUM	02-201-24-18	<a href="http://www.samsung.com/be">www.samsung.com/be</a> (Dutch) <a href="http://www.samsung.com/be_fr">www.samsung.com/be_fr</a> (French)
BOSNIA	05 133 1999	<a href="http://www.samsung.com">www.samsung.com</a>
BULGARIA	07001 33 11, normal tariff	<a href="http://www.samsung.com">www.samsung.com</a>
CROATIA	062 SAMSUNG (062 726 7864)	<a href="http://www.samsung.com">www.samsung.com</a>
CZECH	800 - SAMSUNG (800-726786)	<a href="http://www.samsung.com">www.samsung.com</a>
DENMARK	70 70 19 70	<a href="http://www.samsung.com">www.samsung.com</a>
FINLAND	09 85635050	<a href="http://www.samsung.com">www.samsung.com</a>
FRANCE	01 48 63 00 00	<a href="http://www.samsung.com">www.samsung.com</a>
GERMANY	0180 5 7267864* (*0,14 €/Min. aus dem dt. Festnetz, aus dem Mobilfunk max. 0,42 €/Min.)	<a href="http://www.samsung.com">www.samsung.com</a>
CYPRUS	8009 4000 only from landline (+30) 210 6897691 from mobile and land line	<a href="http://www.samsung.com">www.samsung.com</a>
GREECE	80111-SAMSUNG (80111 726 7864) only from land line (+30) 210 6897691 from mobile and land line	<a href="http://www.samsung.com">www.samsung.com</a>
HUNGARY	06-80-SAMSUNG(726-7864)	<a href="http://www.samsung.com">www.samsung.com</a>
ITALIA	800-SAMSUNG(726-7864)	<a href="http://www.samsung.com">www.samsung.com</a>
LUXEMBURG	261 03 710	<a href="http://www.samsung.com">www.samsung.com</a>
MACEDONIA	023 207 777	<a href="http://www.samsung.com">www.samsung.com</a>
MONTENEGRO	020 405 888	<a href="http://www.samsung.com">www.samsung.com</a>
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	<a href="http://www.samsung.com">www.samsung.com</a>
NORWAY	815 56480	<a href="http://www.samsung.com">www.samsung.com</a>
POLAND	0 801-1SAMSUNG(172-678) +48 22 607-93-33	<a href="http://www.samsung.com">www.samsung.com</a>
PORTUGAL	808 20-SAMSUNG(808 20 7267)	<a href="http://www.samsung.com">www.samsung.com</a>
ROMANIA	08008 SAMSUNG (08008 726 7864) TOLL FREE No.	<a href="http://www.samsung.com">www.samsung.com</a>
SERBIA	0700 Samsung (0700 726 7864)	<a href="http://www.samsung.com">www.samsung.com</a>
SLOVAKIA	0800 - SAMSUNG(0800-726 786)	<a href="http://www.samsung.com">www.samsung.com</a>
SPAIN	902 - 1 - SAMSUNG (902 172 678)	<a href="http://www.samsung.com">www.samsung.com</a>
SWEDEN	0771 726 7864 (SAMSUNG)	<a href="http://www.samsung.com">www.samsung.com</a>
Switzerland	0848 - SAMSUNG(7267864, CHF 0.08/min)	<a href="http://www.samsung.com/ch">www.samsung.com/ch</a> (German) <a href="http://www.samsung.com/ch_fr">www.samsung.com/ch_fr</a> (French)
U.K	0330 SAMSUNG (7267864)	<a href="http://www.samsung.com">www.samsung.com</a>
EIRE	0818 717100	<a href="http://www.samsung.com">www.samsung.com</a>
LITHUANIA	8-800-77777	<a href="http://www.samsung.com">www.samsung.com</a>
LATVIA	8000-7267	<a href="http://www.samsung.com">www.samsung.com</a>
ESTONIA	800-7267	<a href="http://www.samsung.com">www.samsung.com</a>

Split Hydro Unit  
AEN080YDEHA  
AEN160YDEHA  
AEN160YDGHA

# Air to Water Heat Pump -Split Hydro Unit User manual



This manual is made with 100% recycled paper.



## imagine the possibilities

Thank you for purchasing this Samsung product.  
To receive more complete service, please  
register your product at  
[www.samsung.com/register](http://www.samsung.com/register)